

Mössbauer spectra and magnetic properties of $\text{Tm}_{0.65}\text{Sr}_{0.35}\text{Fe}_x\text{Mn}_{1-x}\text{O}_3$ ($x = 0.3, 0.35, 0.4$)

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Abstract

We report Mössbauer spectroscopy results for $\text{Tm}_{0.65}\text{Sr}_{0.35}\text{Fe}_x\text{Mn}_{1-x}\text{O}_3$ ($x = 0.3-0.4$) at 300 and 80 K. Like in the case of lighter lanthanide ferromanganites, we observe phase separation of the magnetic sub-system: a magnetic phase shows up in the spectra in the form of a Zeeman sextet and "paramagnetic" doublets. © 2013 Pleiades Publishing, Ltd.

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